

**Joint Base Myer-Henderson Hall  
VSMP MS4 General Permit  
2015 Annual Report**

**A. Background Information.**

1. **Facility Name:** Joint Base Myer-Henderson Hall (formerly known as U.S. Army Garrison Fort Myer)  
**Permit Number:** MS4 General Permit VAR040068
2. **Annual Report Permit Year:** 2014-2015 (Period of Report: 1 July 2014 – 30 June 2015)
3. **Modifications to roles and responsibilities:** None since 2014 Annual Report.
4. **Number of New MS4 Outfalls:** No newly constructed outfalls were added during the permit year 2015 period (1 July 2014 – 30 June 2015).
5. **Signed Certification**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Name: Michael D. Henderson, COL, US Army Commanding  
Title: Commander, Joint Base Myer-Henderson Hall

Signature: 

Date: 11 Sep 15

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**B. Permit Conditions Compliance Assessment.**

- 1. Status of Compliance with MS4 Permit Conditions.** A summary of compliance with the MS4 permit conditions is documented in **Attachment 1**. The summary provides the required annual report documentation specified in Section II of the 2013 MS4 General Permit for Joint Base Myer-Henderson Hall (JBM-HH). Since obtaining additional contractor support in late August 2014, EMD has worked diligently to address Permit Year 1 deficiencies and bring the program into full compliance during Permit Year 2.
- 2. Best Management Practice (BMP) Assessment.** The BMPs identified in JBM-HH's MS4 Program Plan were assessed for their effectiveness at preventing stormwater pollution. At this time, the BMPs appear to be effective at controlling stormwater pollution; new BMPs will be developed and implemented in the future if the current BMPs are deemed to be ineffective. The United States Army Corps of Engineers have designed future BMPs to be implemented to meet the Chesapeake Bay total maximum daily load (TMDL) pollutant reductions required during the current and future permit cycles.
- 3. Progress towards Achieving Measurable Goals.** **Attachment 2** presents a summary evaluation of JBM-HH's progress towards achieving the measurable goals contained in the approved MS4 Program Plan.

**C. Results of Information Collected and Analyzed, including Monitoring Data, if any, during the Reporting Period.**

Stormwater benchmark monitoring is required under JBM-HH's Industrial Stormwater General Permit (VAR05), which is administered by the Virginia Department of Environmental Quality (DEQ). JBM-HH obtained coverage under the new permit, effective 1 July 2014 (VAR051296), and conducts semiannual stormwater monitoring at Outfalls 003 and 005 for total suspended solids (TSS) and total petroleum hydrocarbons (TPH). Stormwater samples are also being analyzed for total nitrogen (TN) and total phosphorus (TP) during the first two permit years (2014-2016).

During the July-December 2014 monitoring period, reported concentrations of TSS and TPH at both outfalls were below their respective benchmark concentrations of 100 mg/L and 15 mg/L, respectively. Concentrations of total nitrogen and total phosphorus were reported at < 1 mg/L and 0.09 mg/L, respectively, at Outfall 003; at Outfall 005, total nitrogen and total phosphorus concentrations were measured at < 1 mg/L and < 0.01 mg/L, respectively. During the January-June 2015 monitoring period, reported concentrations of TSS and TPH at both outfalls were also below their respective benchmark concentrations. Concentrations of total nitrogen and total phosphorus were reported at < 0.71 mg/L and 0.18 mg/L, respectively, at Outfall 003. At Outfall 005, total nitrogen concentration was measured at 0.27 mg/L; the concentration of total phosphorus at Outfall 005 was below the laboratory reporting limit of 0.05 mg/L. Discharge monitoring reports for both monitoring periods are included as Attachment 3.

The Industrial General Permit also requires that quarterly visual stormwater monitoring be conducted at the regulated outfalls. No indications of stormwater pollution were identified during visual monitoring conducted during the previous year.

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**D. Future Stormwater Activities.** During the next reporting period, illicit discharge tracking will continue. Stormwater monitoring will continue in compliance with JBM-HH's Industrial Stormwater General Permit. Ongoing and future construction activities will be routinely monitored for compliance with stormwater and erosion and sediment control permits. Routine inspections will be continued for JBM-HH's industrial activities. Public education and outreach activities, training, and other required actions related to the six minimum control measures will be implemented as described in the Installation's MS4 Program Plan.

**E. Best Management Practices and Measurable Goal Modifications.** BMPs for stormwater pollution prevention will be updated to conform to the requirements of the 2013 MS4 General Permit as appropriate. Details are provided in the Installation's MS4 Program Plan. The new program elements are being initiated as described in Section B of this report. At this time, no significant stormwater pollution concerns requiring modifications to measurable goals or BMPs have been identified.

**F. Reliance on Another Government Entity to Satisfy Permit Obligations.** The U.S. Army Corps of Engineers (USACE) is responsible for ensuring that contractors for construction projects under their oversight comply with the provisions of the MS4 permit as well as Federal and state stormwater regulations. JBM-HH EMD reviews projects for compliance and conducts periodic compliance inspections of construction activities. USACE also prepared JBM-HH's TMDL Action Plan and will design and manage construction of BMPs to meet Chesapeake Bay TMDL pollutant load reduction targets in this and subsequent permit terms.

Construction projects disturbing more than 2,500 square feet must obtain an approved erosion and sediment control plan and a Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Construction Activities. Virginia DEQ is the permit review and issuing authority for Construction General Permits, as JBM-HH is a federal entity.

**G. The approval status of any programs pursuant to Section II C.** There are no applicable programs that impact JBM-HH.

**H. TMDL Special Conditions.**

**1. Part I.B, Special Conditions for Approved Total Maximum Daily Loads other than the Chesapeake Bay:**

The MS4 General Permit requires permittees to address pollutants for which the MS4 has been assigned a wasteload allocation (WLA) in an approved TMDL (other than the Chesapeake Bay TMDL). There are no known WLAs assigned to JBM-HH, therefore this special condition does not apply.

If a WLA is assigned to JBM-HH in the future, the required TMDL Action Plan will be prepared and implemented.

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**2. Part I.C, Special condition for the Chesapeake Bay TMDL:**

The MS4 General Permit requires preparation of a Chesapeake Bay TMDL Action Plan by 30 June 2015. This plan was prepared by the USACE and is included with this Annual Report for the Virginia DEQ's review.

**Attachment 1 - VSMP MS4 General Permit 2015 Annual Report**  
**JBM-HH Minimum Control Measure Progress Evaluation**

Attachment 1 - VSMP MS4 General Permit 2015 Annual Report				
JBM-HH Minimum Control Measure Progress Evaluation				
Permit Section: Requirement		Implementation Summary		
Minimum Control Measure 1: Public Education and Outreach on Stormwater Impacts				
Section II.B.1.g(1) : A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached.	High-Priority WQ Issue	Activity	Target Audience/Estimated Total Audience	Estimated % Reached
	Oil & grease, hydrocarbons and related pollutants	<ul style="list-style-type: none"><li>Revised and redistributed Stormwater Pollution Prevention brochures to soldiers</li><li>Published one article in the <i>Pentagram</i>, JBM-HH's weekly newspaper</li><li>Developed and delivered stormwater pollution prevention presentation and activity to CDC preschoolers</li><li>Updated web page with new information</li></ul>	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000 CDC preschoolers/~60	20% 20% 30% 75%
	Sediment	<ul style="list-style-type: none"><li>Published one <i>Pentagram</i> article</li><li>Provided additional employee training (DPW staff)</li><li>Prepared list of construction site inspection requirements for construction project managers</li></ul>	Civilian Employees/1,730 DPW Construction Project Managers and DPW maintenance employees/~100	35% 80%
	Trash and Litter	<ul style="list-style-type: none"><li>Published one <i>Pentagram</i> article regarding proper trash disposal and impact of litter</li><li>Created Stormwater Pollution Prevention presentation distributed to new civilian employees and active duty military</li></ul>	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000	35% 20% 40%
Section II.B.1.g(2): A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.	Education and Outreach activities planned for the next reporting and the estimated target audiences to be reached are summarized below:			
	High-Priority WQ Issue	Activity	Target Audience/Estimated Total Audience	Estimated % to be Reached
	Oil & grease, hydrocarbons and related pollutants	<ul style="list-style-type: none"><li>Publish one article in the <i>Pentagram</i></li><li>Post information on JBM-HH Facebook page regarding spill reporting and car washing</li><li>Update web page with new information</li></ul>	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000	20% 20% 30%
	Sediment	<ul style="list-style-type: none"><li>Develop and publish basewide stormwater policy</li><li>Update web page with new information</li></ul>	Civilian Employees/1,730 DPW Construction Project Managers and DPW maintenance employees/~100	35% 80%
	Trash and Litter	<ul style="list-style-type: none"><li>Publish one <i>Pentagram</i> article regarding proper trash disposal and impact of litter</li><li>Mark storm drains in high-traffic areas</li><li>Continue presenting Stormwater Pollution Prevention in-briefing slides to new civilian employees and active duty military</li><li>Update web page with new information</li></ul>	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000	35% 20% 40%
Minimum Control Measure 2: Public Involvement/Participation				
Section II.B.2.d(1): A web link to the MS4 Program Plan and annual report	<a href="http://www.jbmhh.army.mil/WEB/JBMHH/Directorates/EnvironmentalManagement.html">http://www.jbmhh.army.mil/WEB/JBMHH/Directorates/EnvironmentalManagement.html</a>			

**Attachment 1 - VSMP MS4 General Permit 2015 Annual Report**  
**JBM-HH Minimum Control Measure Progress Evaluation**

Attachment 1 - VSMP MS4 General Permit 2015 Annual Report JBM-HH Minimum Control Measure Progress Evaluation	
Permit Section: Requirement	Implementation Summary
Section II.B.2.d(2): Documentation of compliance with the public participation requirements of this section.	The updated MS4 Program Plan has been posted on the JBM-HH website. The Annual Report will be posted within 30 days of submission to DEQ. A stormwater pollution prevention presentation was delivered to 40 preschool students at the JBM-HH child daycare center. Earth Day, base-wide cleanup, and paper shredding and recycling activities were held that involved multiple organizations on the Installation. EMD is currently in the process of planning public involvement activities for the next year as described in the MS4 Program Plan.
<b>Minimum Control Measure 3: Illicit Discharge Detection and Elimination</b>	
Section II.B.3.f(1): A list of any written notifications of physical interconnection given by the operator to other MS4s.	There have been no written notifications of interconnections issued. A site visit was conducted by Arlington County in June 2014 to review JBM-HH outfall locations and discharge area characteristics.
Section II.B.3.f(2): The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.	All 24 outfalls were screened during 2014. As of September 2015, approximately 75% of the Installation's outfalls have been inspected.  Conditions requiring follow-up actions were observed at three outfalls; work orders have been submitted to maintain the outfalls and repair age-related damage.
Section II.B.3.f(3): A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.	Illicit discharges related to vehicle washing were observed on 27-28 Aug 14 at the Fire Department and 12 May 2015 at The Old Guard Motor Pool. At both locations, discharges of non-sudsy water were observed. Memos detailing the observations, the effects of vehicle washing on water quality, and corrective actions were issued, and no subsequent instances of vehicle washing or rinsing were observed in follow-up inspections on 14 Oct 14 at the Fire Department and 25 June 15 at The Old Guard Motor Pool, and the investigations were closed. To curb future illicit discharges related to vehicle washing, a base-wide stormwater policy was developed in August 2015 to address vehicle washing, spills and leaks, best management practices, and reporting. There are also plans to bring an additional commercial car wash and water recycling system online for use by JBM-HH vehicles.
<b>Minimum Control Measure 4: Construction site stormwater runoff control</b>	
Section II.B.4.f(1): Total number of regulated land-disturbing activities	Land disturbing activities during this reporting year included demolition of a barracks and replacement of an underground water line.
Section II.B.4.f(2): Total number of acres disturbed	Less than 5 acres.
Section II.B.4.f(3): Total number of inspections conducted	Thirty-five (35) inspections of construction sites were conducted at JBM-HH during the last permit year.
Section II.B.4.f(4): A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.	As a result of observed noncompliance with controls outlined in their Erosion and Sediment Control Plan during three inspections in March-April 2015, the US Army Corps of Engineers Administrative Contracting Officer issued a warning letter on 4/14/15. Deficiencies were corrected by the next inspection on 4/17/15.
<b>Minimum Control Measure 5: Post-construction stormwater management in new development and development on prior developed lands</b>	
Section II.B.5.e(9): the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance. The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report.	JBM-HH is a military installation. Inspection and maintenance of all stormwater management facilities on the Installation is the responsibility of the Directorate of Public Works (DPW). The United States Army Environmental Command performed 15 inspections. Maintenance issues are managed through the DPW work order process; enforcement actions are not applicable.  There were no new stormwater management facilities brought online during this reporting period.
<b>Minimum Control Measure 6: Pollution prevention/good housekeeping for municipal operations</b>	
Section II.B.5.g(1) A summary report on the development and implementation of the daily operational procedures	Daily operational procedures for DPW employees were completed by the 30 June 2015 deadline and were disseminated among the affected DPW departments.
Section II.B.5.g(2) A summary report on the development and implementation of the required SWPPPs	A JBM-HH SWPPP that addresses all municipal operations for the Installation was prepared to comply with the Installation's VPDES Industrial Stormwater Permit. This SWPPP has been implemented since 2009 and was updated in June 2015.
Section II.B.5.g(3) A summary report on the development and implementation of the turf and landscape nutrient management plans that includes: (a) The total acreage of lands where turf and landscape nutrient management plans are required; and (b) The acreage of lands upon which turf and landscape nutrient management plans have been implemented	Turf and landscaped areas at the Installation are generally limited to small maintained yards and landscaped areas surrounding residences and buildings. The only large area that may have nutrient applications is the Summerall Field. This area is approximately 9 acres and is used for ceremonies, parades, and other similar activities. The coordinates for this area are: N38.881746, E-77.081838. The need for a nutrient management plan will be evaluated, and if a plan is required, it will be developed in accordance with the permit conditions.

Attachment 1 - VSMP MS4 General Permit 2015 Annual Report  
JBM-HH Minimum Control Measure Progress Evaluation

Attachment 1 - VSMP MS4 General Permit 2015 Annual Report JBM-HH Minimum Control Measure Progress Evaluation	
Permit Section: Requirement	Implementation Summary
Section II.B.5.g(4): A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.	Annual stormwater pollution prevention and spill prevention training is provided for civilian employees and active-duty military personnel whose duties involve industrial and maintenance activities. The training addresses good housekeeping and pollution prevention. This training is deployed in a computer-based training format; after employees/personnel successfully pass an integrated test, a certificate of completion is generated. Since the training is computer based, training dates vary. During the last reporting period, 19 employees and active duty military personnel assigned to motor pool maintenance and DPW maintenance activities completed the training. An additional training module was developed in June 2015 to specifically address illicit discharge detection and elimination; this training was distributed to the same 19 employees on 6/17/15.

**Attachment 2 - VSMP MS4 General Permit 2015 Annual Report**  
**JBM-HH Minimum Control Measure Progress Report**

BMP	Schedule	Measurable Goals	Progress
<b>Minimum Control Measure 1: Public Education and Outreach on Stormwater Impacts</b>			
1.1 - Provide information at Environmental Quality Control Committee (EQCC) meetings about water quality and pollution prevention.	Meetings are held quarterly.	Meetings held quarterly; standing agenda item added to discuss water quality and pollution prevention issues	EQCC meetings held throughout permit year 2014-2015. Relevant discussion topics include stormwater noncompliance observations and completed corrective actions from routine inspections, the Chesapeake Bay TMDL, designs of future stormwater best management practices to meet target reductions in the MS4 permit, and a summary of the new base-wide stormwater policy.
1.2 – Publish articles or advertisements in the Pentagongram, a weekly publication with a circulation of over 19,000 in the national capital area military community, about seasonal practices to prevent stormwater pollution. Potential topics include fertilizer application (spring), pet cleanup practices (summer), leaf mulching and removal (fall), and use of deicing materials (winter).	Publish articles quarterly.	Articles published quarterly.	Articles have been published in the Pentagongram about fall stormwater pollution prevention; bioretention areas, the effects of polluted stormwater runoff on water quality, and microplastics. Two of these articles were submitted to the Assistant Secretary of the Army, and one was also submitted to the quarterly Department of Defense Chesapeake Bay Journal.
1.3 – Establish an environmental information page on the JBM-HH Website. An environmental page can be established that provides tips on pollution prevention, household hazardous waste disposal, recycling opportunities, community environmental events, reporting illegal dumping, etc.	Update webpage annually.	Webpage updated annually.	JBM-HH website updated to include stormwater pollution prevention information and downloadable environment incident report form.
1.4 – Prepare public education brochures for activities with the potential to contribute to stormwater pollution and a general stormwater pollution awareness brochure for new residents and workers.	Update 2012 brochures and redistribute to appropriate residents and employees.	Brochures distributed to all target agencies/audiences.	Brochures were updated in 2015 and redistributed.
<b>Minimum Control Measure 2: Public Involvement/Participation</b>			
2.1 – Participate in four base activities to promote stormwater pollution prevention and support local clean-up projects and groups or other opportunities for public involvement.	Activities scheduled periodically each year.	Number of activities held.	JBM-HH partnered with Shred Ace, a company specializing in on-site document destruction, on several installation-wide document destruction events and supported Earth Day and base-wide cleanup events in April 2015. A stormwater pollution prevention presentation distributed to new civilian employees and active duty military during regular newcomer orientations to promote stormwater pollution prevention by employees and new residents. A stormwater pollution presentation and hands-on activity was developed and delivered to preschoolers at the JBM-HH child daycare center. During a tabling event, stormwater education brochures were distributed to soldiers.



**Attachment 2 - VSMP MS4 General Permit 2015 Annual Report**  
**JBM-HH Minimum Control Measure Progress Report**

BMP	Schedule	Measurable Goals	Progress
<b>Minimum Control Measure 3: Illicit Discharge Detection and Elimination</b>			
3.1 – Update GIS system with new storm drain system information as changes occur.	GIS data will be updated as needed based on construction activity.	New construction modifications added to GIS data.	An installation-wide as-built storm sewer survey was completed by DPW. Survey updates with storm system as-built information are provided periodically to DEM; GIS data was updated with new information in March 2015.
3.2 – Conduct dry weather inspections of all base outfalls to look for evidence of illicit discharges.	Inspections are conducted annually.	Inspections performed annually.	Inspections conducted of all outfalls; completed in July 2014. Outfalls will be re-inspected annually during permit years 2013-2018.
3.3 – Maintain database to track changes to building drains.	GIS data will be updated as building drains are located and site changes are made.	Database updated regularly.	GIS data is being updated with storm drain survey data as it is obtained.
3.4 – Identify and eliminate illicit connections to storm drain. Ongoing sanitary sewer system upgrades are addressing cross connections as they are identified.	To be identified during DPW projects, as applicable, and during stormwater program inspections.	Inspections performed by Installation staff.	DPW projects and stormwater program inspections performed in 2014-15 did not identify cross-connections.
3.5 – Inform the JBM-HH community about hazards to human health and the environment from improper waste disposal and illegal dumping/ discharges. Information will be distributed through the sources identified in Minimum Control Measure (MCM) 1.	As identified in MCM 1.	Information distributed at EQCC meetings, through Website, and in Pentagongram articles.	Proper disposal of HazWaste and other materials is discussed at EQCC meetings and included in public education efforts. Base-wide cleanup held during April.
<b>Minimum Control Measure 4: Construction Site Stormwater Runoff Control</b>			
4.1 – Review of all construction projects to insure that stormwater permit coverage and erosion and sediment control plan approvals have been obtained and that an adequate SWPPP has been prepared.	Review projects as they are scheduled.	Number of project reviews completed.	EMD continues to review new construction projects for compliance with regulatory requirements for issuance of stormwater permits and erosion and sediment control plan approvals. EMD reviews contractor-generated SWPPPs and uses them for the basis of regular construction inspections.
4.2 – Submit erosion and sediment control (E&SC) and stormwater management (SWM) plans to Virginia Department of Environmental Quality.	Plans are submitted to VA DEQ for review as projects are scheduled.	All construction plans for regulated land-disturbing activities (> 10,000 square feet of disturbance) submitted to VA DEQ.	The construction projects initiated during permit year 2014-15 obtained E&SC and SWM approvals from VA DEQ and Construction General Permit coverage, as appropriate.
4.3 – Maintain tracking system for construction projects; add field for number of acres disturbed.	Update tracking system annually.	Data available for annual updates.	Tracking system was updated for construction projects taking place in permit year 2014-15.
4.4 – Perform biweekly inspections of active construction projects' E&S and SWM controls and pollution prevention BMPs; if deficiencies are identified, a copy of inspection report should be provided to construction operator with direction to address deficiencies.	Bi-weekly inspections for active construction projects.	Completed inspection reports for active construction projects.	Completed inspection reports maintained for construction projects at JBM-HH. A total of 35 inspections were performed on constructions sites during the last permit year.

**Attachment 2 - VSMP MS4 General Permit 2015 Annual Report**  
**JBM-HH Minimum Control Measure Progress Report**

BMP	Schedule	Measurable Goals	Progress
<b>Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment</b>			
5.1 – Require post-construction BMPs that comply with VA DEQ SWM requirements. Develop agreement with USACE that construction projects under their oversight will comply with VA DEQ SWM requirements.	Plans are submitted to VA DEQ for review as projects are scheduled.	BMPs are installed for all construction projects as required.	Construction projects taking place during the 2014-15 permit year involved demolition and utility upgrades; they did not require post-construction BMPs.
5.2 – Maintain an inventory for all permanent SWM BMPs on base (post construction BMPs at JBM-HH include aboveground and underground detention facilities and water quality structures such as sand filters and Baysavers). Include fields for all data listed under b(4) of MCM 5.	Update continuously with new project information as it becomes available.	Inventory and tracking system updated with new information as it becomes available.	Inventory maintained in Microsoft Excel. Existing BMPs accounted for; no new SWM BMPs to add during 2014-15 permit year.
5.3 – To ensure these devices perform adequately and to track maintenance actions, develop a maintenance schedule that meets designer's/manufacture's recommendations. Document all maintenance activities. Record maintenance actions in the tracking system for BMP 5.2.	Develop and finalize maintenance and inspection schedule with DPW.	Maintenance schedule developed and maintenance performed as recommended.	Maintenance schedule and tracking system was developed and finalized by DPW.
<b>Minimum Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations</b>			
6.1 – Provide training. Evaluate current training program for adequacy in addressing stormwater pollution prevention and spill response.	Current training will be evaluated by end of PY1 and updated by middle of PY2, if necessary	Training updated if needed. All staff trained with annual refreshers provided. New staff trained within 6 months.	The 2011 computer-based stormwater pollution prevention and SPCC training program was evaluated in 2013. The evaluation indicated that the program did not include sufficient training on good housekeeping/pollution prevention practices during road, street, and parking lot maintenance. A training supplement was developed and distributed to all industrial operations shops to meet 2014 and 2015 employee training requirements.
6.2 – Conduct inspection and cleaning of roof gutters, street gutters, and storm drainage inlets as needed.	Cleanups as needed.	Records of inspections and cleaning activities (frequency, amount of debris removed, manhours, etc.)	Storm drain inlets and structures that need cleaning and maintenance have been identified. EMD will continue to work with DPW to ensure maintenance is performed regularly.
6.3 – Update and implement SWPPP for facilities with municipal shop operations.	Complete updates by end of PY1. Fully implement within 6 months of completion. Conduct annual site compliance evaluations.	SWPPP updated and implemented. Annual compliance evaluations completed – no significant findings.	Annual compliance evaluation and SWPPP update completed June 2015.



**DEPARTMENT OF THE ARMY**

JOINT BASE MYER – HENDERSON HALL  
204 LEE AVENUE  
FORT MYER, VIRGINIA 22211-1199

REPLY TO  
ATTENTION OF

December 4, 2014

SUBJECT: Submittal of Discharge Monitoring Report for July-December 2014

Ms. Susan Mackert  
Water Permit Writer, Senior II  
Virginia Department of Environmental Quality  
Northern Regional Office  
13901 Crown Court  
Woodbridge, VA 22193

Dear Ms. Mackert:

Please find enclosed the Discharge Monitoring Report (DMR) for the monitoring period July-December 2014, as required under the Joint Base Myer-Henderson Hall (JBM-HH) VPDES Industrial Stormwater General Permit for stormwater discharges associated with industrial activity from U.S. Army Installation Fort Myer (Fort Myer) and Marine Corps Headquarters Battalion Henderson Hall (Henderson Hall), in Fort Myer, Virginia, VAR051296. The enclosed document contains DMRs for both permitted outfalls, Outfall 003 and Outfall 005.

A copy of this DMR was also submitted to the Arlington County Department of Environmental Services, the operator of the Arlington County municipal separate storm sewer system, which receives discharge from JBM-HH via Arlington National Cemetery.

If you have any questions about the information herein or require additional information, please contact Richard LaFreniere, Chief, Environmental Management Division at (703) 696-8055.

Sincerely,

Michael D. Henderson  
Colonel, U.S. Army  
Commanding

Enclosure



**DEPARTMENT OF THE ARMY**

JOINT BASE MYER – HENDERSON HALL  
204 LEE AVENUE  
FORT MYER, VIRGINIA 22211-1199

REPLY TO  
ATTENTION OF

December 4, 2014

**SUBJECT:** Notification of Discharge to Arlington County Municipal Separate Storm Sewer Systems (MS4) by Joint Base Myer-Henderson Hall and Submittal of Discharge Monitoring Report for July-December 2014

Mr. Greg Emanuel, Director  
Arlington County Department of Environmental Services  
2100 Clarendon Boulevard, Suite 900  
Arlington, VA 22201

Dear Mr. Emanuel:

Joint Base Myer-Henderson Hall (JBM-HH) obtained coverage under the VPDES Industrial Stormwater General Permit for stormwater discharges associated with industrial activity from U.S. Army Installation Fort Myer (Fort Myer) and Marine Corps Headquarters Battalion Henderson Hall (Henderson Hall), in Fort Myer, Virginia. Stormwater associated with industrial activities covered by the General Permit discharges to Arlington National Cemetery (ANC) storm drains at two locations on the eastern boundary of Fort Myer. JBM-HH understands the ANC storm drain system is included with Arlington County's MS4 service area. In accordance with VPDES permit conditions, JBM-HH's Environmental Management Division (EMD) is providing this notification of discharge to the Arlington County-owned MS4 and the following information:

**Facility Name and Address:** Fort Myer and Henderson Hall

**VPDES Permit No.** VAR051296

**Contact Person:** Richard LaFreniere, Chief, EMD

**Telephone Number:** (703) 696-8055

**Location of the Discharge:** Two discharge points to Arlington National Cemetery, designated as Outfalls 003 and 005. These outfalls are located near the northeast corner of Fort Myer, and convey runoff and treated stormwater.

Included as an attachment is a signed copy of the semiannual discharge monitoring reports for both outfalls for the monitoring period July-December 2014. Original copies are submitted to the Virginia Department of Environmental Quality.



If you have any questions about the information herein or require additional information, please contact Richard LaFreniere at (703) 696-8055.

Sincerely,

A handwritten signature in black ink, appearing to read "M. D. Henderson". The signature is fluid and cursive, with the first name "Michael" and last name "Henderson" clearly distinguishable.

Michael D. Henderson  
Colonel, US Army  
Commanding

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
(703)583-3800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
111 Stewart Rd

ADDRESS US Army-Fort Myer-DPWEnv Div IMND MNH PWE Blvd 315  
Fort Myer VA 22211

FACILITY LOCATION Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055

VAR051296	003
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	TO YEAR MONTH DAY
X	2014	July	1	2014 December 31
	2015	January	1	2015 June 30
	2015	July	1	2015 December 31
	2016	January	1	2016 June 30
	2016	July	1	2016 December 31
	2017	January	1	2017 June 30
	2017	July	1	2017 December 31
	2018	January	1	2018 June 30
	2018	July	1	2018 December 31
	2019	January	1	2019 June 30

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
004 TSS	*****	*****	21	0	Grab
	*****	*****	100		GRAB
257 PETROLEUM HYDROCARBONS, TOTAL R	*****	*****	0.19	0	Grab
	*****	*****	15		GRAB

Comments:

STORM EVENT INFORMATION		
DATE	YR MO DAY	14 11 06
DURATION	HRS MIN	9 0
RAINFALL TOTAL (IN.)		0.51
PRECEDING EVENT	DAYS HRS	8 0

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Michael D. Henderson  
Colonel, US Army  
Commanding

TYPED OR PRINTED NAME

DATE

*Michael D. Henderson*  
14 12 15

SIGNATURE

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
VA 22193  
(703)583-3800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER  
BENCHMARK MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
ADDRESS 111 Stewart Rd

FACILITY LOCATION US Army-Fort Myer-DPWEnv Div IMND MNH PWME Blvd 315  
Fort Myer VA 22211

Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055

VAR051296	005
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD					
	YEAR	MONTH	DAY	TO YEAR	TO MONTH	TO DAY
X	2014	July	1	2014	December	31
	2015	January	1	2015	June	30
	2015	July	1	2015	December	31
	2016	January	1	2016	June	30
	2016	July	1	2016	December	31
	2017	January	1	2017	June	30
	2017	July	1	2017	December	31
	2018	January	1	2018	June	30
	2018	July	1	2018	December	31
	2019	January	1	2019	June	30

PARAMETER	CONCENTRATION			UNITS	NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM			
004 TSS	*****	*****	2.2	mg/L	0	Grab
	*****	*****	100	MG/L		GRAB
257 PETROLEUM HYDROCARBONS, TOTAL R	*****	*****	< 0.10	mg/L	0	Grab
	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION		
DATE	YR	MO DAY
	14	11 17
DURATION	HRS	MIN
	16	0
RAINFALL TOTAL (IN.)	0.71	
PRECEDING EVENT	DAYS	HRS
	3	0

Comments:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Michael D. Henderson  
Colonel, US Army  
Commanding

TYPED OR PRINTED NAME

*Michael D. Henderson*

SIGNATURE

DATE

14 12 15  
YEAR MO. DAY

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)**

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
(703)583-3800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
ADDRESS 111 Stewart Rd

FACILITY LOCATION US Army-Fort Myer-DPWEnv Div IMND MNH PWE Bld 315  
Fort Myer VA 22211  
Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055

VAR051296	003
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	TO YEAR MONTH DAY
X	2014	July	1	2014 December 31
	2015	January	1	2015 June 30
	2015	July	1	2015 December 31
	2016	January	1	2016 June 30
	2016	July	1	2016 December 31
	2017	January	1	2017 June 30
	2017	July	1	2017 December 31
	2018	January	1	2018 June 30
	2018	July	1	2018 December 31
	2019	January	1	2019 June 30

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
929 ChesBay TMDL TSS	*****	*****	21	0	Grab
	*****	*****	NL		GRAB
930 ChesBay TMDL Nitrogen, Total (as N)	*****	*****	< 1	0	Grab
	*****	*****	NL		GRAB
931 ChesBay TMDL Phosphorus, Total (as P)	*****	*****	0.09	0	Grab
	*****	*****	NL		GRAB

STORM EVENT INFORMATION			
DATE	YR	MO	DAY
	14	11	06
DURATION	HRS	MIN	
	9	0	
RAINFALL TOTAL (IN.)	0.51		
PRECEDING EVENT	DAYS	HRS	
	8	0	

Comments: Chesapeake Bay TMDL monitoring is only required July 1, 2014 through June 30, 2016.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE
Michael D. Henderson Colonel, US Army Commanding		14/12/15	
TYPED OR PRINTED NAME		SIGNATURE	
		YEAR MO. DAY	



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
(703)583-3800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
111 Stewart Rd

ADDRESS US Army-Fort Myer-DPWENV Div IMND MNH PWE Blvd 315  
Fort Myer VA 22211

FACILITY LOCATION Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055


VAR051296	005
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	NO.
X	2014	July	1	1
	2015	January	1	1
	2015	July	1	1
	2016	January	1	1
	2016	July	1	1
	2017	January	1	1
	2017	July	1	1
	2018	January	1	1
	2018	July	1	1
	2019	January	1	1

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
929 ChesBay TMDL Tss	*****	*****	2.2	0	Grab
	*****	*****	NL		GRAB
930 ChesBay TMDL Nitrogen, Total (as N)	*****	*****	< 1	0	Grab
	*****	*****	NL		GRAB
931 ChesBay TMDL Phosphorus, Total (as P)	*****	*****	< 0.01	0	Grab
	*****	*****	NL		GRAB

STORM EVENT INFORMATION		
DATE	YR	MO DAY
	14	11 17
DURATION	HRS	MIN
	16	0
RAINFALL TOTAL (IN.)	0.71	
PRECEDING EVENT	DAYS	HRS
	3	0

Comments: Chesapeake Bay TMDL monitoring is only required July 1, 2014 through June 30, 2016.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
Michael D. Henderson Colonel, US Army Commanding				14 12 15	
TYPED OR PRINTED NAME		SIGNATURE		YEAR	MO. DAY



**DEPARTMENT OF THE ARMY**  
JOINT BASE MYER – HENDERSON HALL  
204 LEE AVENUE  
FORT MYER, VIRGINIA 22211-1199

REPLY TO  
ATTENTION OF

July 10, 2015

Environmental Management Division

Mr. Bryant Thomas  
Water Permits & Planning Manager  
Virginia Department of Environmental Quality–Northern Regional Office  
13901 Crown Court  
Woodbridge, VA 22193  
bryant.thomas@deq.virginia.gov

Dear Mr. Thomas:

Please find enclosed the Discharge Monitoring Report (DMR) for the monitoring period January–June 2015, as required under the Joint Base Myer-Henderson Hall (JBM-HH) VPDES Industrial Stormwater General Permit for stormwater discharges associated with industrial activity from U.S. Army Installation Fort Myer and Marine Corps Headquarters Battalion Henderson Hall, in Fort Myer, Virginia, VAR051296. The enclosed document contains DMRs for permitted Outfalls 003 and 005.

A copy of this DMR will also be submitted to the Arlington County Department of Environmental Services, the operator of the Arlington County municipal separate storm sewer system, which receives discharge from JBM-HH via Arlington National Cemetery.

The rain event sampled for this DMR occurred 57 hours after the previous rain event, 15 hours short of the 72-hour requirement. Due to the frequency of rain and thunderstorm events this monitoring period and the inaccessibility of the sampling locations outside of business hours, it was difficult to sample a rain event that met the permit's requirements for sampling events. A tabular summary of this monitoring period's weather is included for your reference.

If you have any questions about the information herein or require additional information, please contact Richard LaFreniere at (703) 696-8055.

Sincerely,

Michael D. Henderson  
Colonel, U.S. Army  
Commanding

Enclosure



Climate Data for January – June 2015 Monitoring Period  
January 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	0	0				
2	0	0				
3	0.5	0	6:52	23:52	6 days	Weekend - outside of normal business hours
4	0.2	0	5:52	20:52	6 hours	Weekend - outside of normal business hours
5	0	0				
6	0.2	2.4	4:42	11:24	8 hours	Not 72 hours since previous measurable event
7	T	T				Insufficient rainfall amount
8	0	0				
9	0	0				
10	0	0				
11	T	0				Insufficient rainfall amount
12	0.75	0	0:52	22:52	5 days	Rain began before normal business hours
13	T	0				Insufficient rainfall amount
14	T	0.2	4:34	7:12	28 hours	Not 72 hours since previous measurable event
15	0	0				
16	0	0				
17	0	0				
18	0.6	0	6:09	12:13	4 days	Weekend - outside of normal business hours
19	0	0				
20	0	0				
21	0.08	0.4	11:52	14:52	3 days	Sampling personnel unavailable during rain event
22	T	0				Insufficient rainfall amount
23	0.65	T	16:11	23:59	2 days	Not 72 hours since previous measurable event
24	0.48	0	0:00	13:52	continued from 1/24	Continued from previous event
25	0	0				
26	0.21	0.5	2:52	23:59	37 hours	Not 72 hours since previous measurable event
27	0.01	0.1				
28	0	0				
29	0.05	T	15:52	18:52	64 hours	Not 72 hours since previous measurable event
30	T	T				Insufficient rainfall amount
31	0	0				

Weekend/Holiday

Climate Data for January – June 2015 Monitoring Period  
February 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	0.04	T	21:22	23:59	3 days	Weekend - outside of normal business hours
2	0.09	0	0:00	10:52	continued from 2/1	Continued from previous event
3	0	0				
4	0	0				
5	0	0				
6	0	0				
7	0	0				
8	0	0				
9	0.07	0	21:29	23:59	6 days	Rain occurred after normal business hours
10	0.02	T	0:00	5:52	continued from 2/9	Continued from previous event
11	0	0				
12	T	T				Insufficient rainfall amount
13	0	0				
14	T	0.1	19:09	19:59	3.5 days	Rain occurred after normal business hours
15	0	0				
16	0.29	2.9	14:54	23:59	43 hours	Not 72 hours since previous measurable event
17	0.23	1.8	0:00	5:52	continued from 2/16	Continued from previous event
18	T	0.1	18:28	19:37	36 hours	Not 72 hours since previous measurable event
19	T	0.1	22:06	22:43	27 hours	Not 72 hours since previous measurable event
20	0	0				
21	0.7	2.6	10:37	23:59	36 hours	Not 72 hours since previous measurable event
22	0.1	0	0:00	5:52	continued from 2/22	Continued from previous event
23	0	0				
24	0	0				
25	0	0				
26	0.14	2.2	3:52	10:24	4 days	Rain began before normal business hours
27	T	T				Insufficient rainfall amount
28	0	0				

   Weekend/Holiday

Climate Data for January – June 2015 Monitoring Period  
March 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	0.51	0.1	8:21	22:52	3 days	Weekend - outside of normal business hours
2	0	0				
3	0.04	T	12:04	18:52	44 hours	Not 72 hours since previous measurable event
4	0.34	0	3:52	23:59	9 hours	Not 72 hours since previous measurable event
5	0.87	4.8	0:00	21:06	continued from 3/4	Continued from previous event
6	0	0				
7	0	0				
8	0	0				
9	0	0				
10	0.44	0	10:52	22:52	5 days	Sampling personnel unavailable during rain event
11	T	0				Insufficient rainfall amount
12	0	0				
13	0.01	0	23:35	23:53	3 days	Insufficient rainfall amount
14	0.6	0	0:00	16:52	continued from 3/13	Continued from previous event
15	0	0				
16	0	0				
17	0	0				
18	0	0				
19	0	0				
20	0.49	T	2:52	16:09	6 days	Rain began before normal business hours
21	0	0				
22	0	0				
23	0	0				
24	0	0				
25	T	0				Insufficient rainfall amount
26	0.35	0	9:19	22:52	6 days	Insufficient rainfall amount during daylight hours
27	0.36	0	0:30	10:53	continued from 3/26	Continued from previous event
28	0	0				
29	0	0				
30	0.02	T				Insufficient rainfall amount
31	0.01	0				Insufficient rainfall amount

☐ Weekend/Holiday

Climate Data for January – June 2015 Monitoring Period  
April 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	0	0				
2	0	0				
3	0.19	0	8:07	23:59	7 days	
4	0.05	0	0:00	4:52	continued from 4/3	Continued from previous event
5	0	0				
6	0	0				
7	0.17	0	2:52	5:52	70 hours	Rain began before normal business hours
8	0.13	0	0:00	9:52	18 hours	Not 72 hours since previous measurable event
9	0.04	0	4:00	23:59	18 hours	Not 72 hours since previous measurable event
10	0.01	0				Insufficient rainfall amount
11	0	0				
12	0	0				
13	0	0				
14	0.64	0	5:52	21:52	5 days	Rain began before normal business hours
15	T	0				Insufficient rainfall amount
16	0.04	0	23:37	23:59	48 hours	Not 72 hours since previous measurable event
17	0.03	0	0:00	19:52	continued from 4/16	Continued from previous event
18	0	0				
19	0.37	0	18:47	23:59	47 hours	Weekend - outside of normal business hours
20	0.77	0	0:00	21:52	continued from 4/20	Electrical storm - unsafe conditions.
21	0.16	0	0:56	4:52	3 hours	Electrical storm - unsafe conditions.
22	T	0				
23	0	0				
24	0	0				
25	0.27	0	18:42	23:59	61 hours	Weekend - outside of normal business hours
26	0	0				
27	T	0				
28	0	0				
29	0	0				
30	0.54	0	13:18	18:07	4.5 days	Electrical storm - unsafe conditions.

   Weekend/Holiday

Climate Data for January – June 2015 Monitoring Period  
May 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	0.11	0	3:34	4:09		Electrical storm - unsafe conditions.
2	0	0				
3	0	0				
4	0	0				
5	0.05	0	18:23	19:52		Electrical storm - unsafe conditions.
6	T	0				Insufficient rainfall amount
7	0	0				
8	0	0				
9	T	0				Insufficient rainfall amount
10	0	0				
11	0	0				
12	0	0				
13	0	0				
14	0	0				
15	0	0				
16	0.66	0	18:05	19:21		Electrical storm - unsafe conditions.
17	T	0				Insufficient rainfall amount
18	0.76	0	16:52	23:59		Electrical storm - unsafe conditions.
19	0	0				
20	0	0				
21	0.33	0	8:52	15:33		Sampled rain event
22	0	0				
23	0	0				
24	0	0				
25	0	0				
26	0	0				
27	0.01	0				Insufficient rainfall amount
28	T	0				Insufficient rainfall amount
29	0	0				
30	0	0				
31	0	0				

☐ Weekend/Holiday

# Climate Data for January – June 2015 Monitoring Period June 2015

Date	Precip Amount (in)		Precip Start	Precip End	Time since previous rain	Notes
	Rain	Snow				
1	2.49	0	1:52	23:59		Electrical storm - unsafe conditions.
2	0.46	0	0:00	23:59	continued from 6/1.	Not 72 hours since previous measurable event
3	0.01	0	0:00	4:52	continued from 6/2	Not 72 hours since previous measurable event
4	0.37	0	12:52	23:59	20 hours	Not 72 hours since previous measurable event
5	0.03	0	3:52	6:12	4 hours	Not 72 hours since previous measurable event
6	0	0				
7	0	0				
8	0.65	0	17:52	22:52	59 hours	Not 72 hours since previous measurable event
9	0	0				
10	0	0				
11	0	0				
12	0.02	0	18:16	19:00	3+ days	Insufficient rainfall amount
13	0	0				
14	0.52	0	16:50	18:20	3+ days	Electrical storm - unsafe conditions.
15	0.08	0	18:07	18:20	24 hours	Not 72 hours since previous measurable event
16	0	0				
17	0.18	0	12:52	23:52		Not 72 hours since previous measurable event
18	0.53	0	0:00	19:21	continued from 6/17	Continued from previous event
19	0.12	0	2:03	3:52	7 hours	Not 72 hours since previous measurable event
20	2.37	0	18:27	11:09	26 hours	Not 72 hours since previous measurable event
21	0.03	0	3:52	6:52	5 hours	Not 72 hours since previous measurable event
22	0	0				
23	0.84	0	18:54	20:43	36 hours	Not 72 hours since previous measurable event
24	0	0				
25	0.48	0	21:18	22:21	48 hours	Not 72 hours since previous measurable event
26	0	0				
27	2.75	0	2:11	21:52	28 hours	Not 72 hours since previous measurable event
28	T	0	2:22	2:52	3.5 hours	Insufficient rainfall amount
29	0	0				
30	0.01	0	9:16	10:42	54 hours	Insufficient rainfall amount

☐ Weekend/Holiday





**DEPARTMENT OF THE ARMY**  
JOINT BASE MYER - HENDERSON HALL  
204 LEE AVENUE  
FORT MYER, VIRGINIA 22211-1199

REPLY TO  
ATTENTION OF

July 10, 2015

SUBJECT: Submittal of Discharge Monitoring Report for January-July 2015 from Joint Base Myer-Henderson Hall

Ms. Diana Handy  
Stormwater Specialist  
Arlington County Department of Environmental Services  
2100 Clarendon Boulevard, Suite 900  
Arlington, VA 22201  
dhandy@arlingtonva.us

Dear Ms. Handy:

Joint Base Myer-Henderson Hall (JBM-HH) obtained coverage under the VPDES Industrial Stormwater General Permit for stormwater discharges associated with industrial activity from U.S. Army Installation Fort Myer (Fort Myer) and Marine Corps Headquarters Battalion Henderson Hall (Henderson Hall), in Fort Myer, Virginia. In accordance with VPDES permit conditions, JBM-HH's Environmental Management Division (EMD) is submitting the attached copy of the semiannual discharge monitoring reports for the monitoring period January-July 2015. An original copy was submitted to the Virginia Department of Environmental Quality.

If you have any questions about the information herein or require additional information, please contact Richard LaFreniere at (703) 696-8055.

Sincerely,

Michael D. Henderson  
Colonel, U.S. Army  
Commanding

COMMON ALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
(703)583-3800  
VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER  
BENCHMARK MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
ADDRESS 111 Stewart Rd

FACILITY US Army-Fort Myer-DPWEnv Div IMND MNH PWE Blvd 315  
LOCATION Fort Myer VA 22211

Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055

VAR051296	003
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	TO YEAR MONTH DAY
	2014	July	1	2014 December 31
X	2015	January	1	2015 June 30
	2015	July	1	2015 December 31
	2016	January	1	2016 June 30
	2016	July	1	2016 December 31
	2017	January	1	2017 June 30
	2017	July	1	2017 December 31
	2018	January	1	2018 June 30
	2018	July	1	2018 December 31
	2019	January	1	2019 June 30

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
004 TSS	*****	*****	44		GRAB
	*****	*****	100		GRAB
257 PETROLEUM	*****	*****	0.18		GRAB
HYDROCARBONS, TOTAL R	*****	*****	15		GRAB

STORM EVENT INFORMATION		
DATE	YR	MO DAY
	15	05 21
DURATION	HRS	MIN
	6	0
RAINFALL TOTAL (IN.)	0.33	
PRECEDING EVENT	DAYS	HRS
		57

Comments:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COL Michael D. Henderson

TYPED OR PRINTED NAME

*Michael D. Henderson*

SIGNATURE

DATE

15 06 18

YEAR MO. DAY

COMMON ALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
(703)583-3800  
VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER  
BENCHMARK MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
ADDRESS 111 Stewart Rd  
US Army-Fort Myer-DPWEnv Div IMND MNH PWE Bld 315  
Fort Myer VA 22211

FACILITY LOCATION Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere  
TELEPHONE 703-696-8055

VAR051296	005
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	TO YEAR MONTH DAY
X	2014	July	1	2014 December 31
	2015	January	1	2015 June 30
	2015	July	1	2015 December 31
	2016	January	1	2016 June 30
	2016	July	1	2016 December 31
	2017	January	1	2017 June 30
	2017	July	1	2017 December 31
	2018	January	1	2018 June 30
	2018	July	1	2018 December 31
	2019	January	1	2019 June 30

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
004 TSS	*****	*****	19		GRAB
	*****	*****	100		GRAB
257 PETROLEUM HYDROCARBONS, TOTAL R	*****	*****	ND		GRAB
	*****	*****	15		GRAB

STORM EVENT INFORMATION			
DATE	YR	MO	DAY
	15	05	21
DURATION	HRS	MIN	
	6	0	
RAINFALL TOTAL (IN.)	0.33		
PRECEDING EVENT	DAYS	HRS	
		57	

Comments:

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COL Michael D. Henderson

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DATE

15 06 15

YEAR MO. DAY

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)  
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)  
Northern Regional Office  
13901 Crown Court  
Woodbridge  
VA 22193  
(703)583-3800

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME US Army - Fort Myer-Headquarters US Army Garrison

FACILITY NAME US Joint Base - Myer Henderson Hall  
ADDRESS 111 Stewart Rd

FACILITY LOCATION US Army-Fort Myer-DPWEnv Div IMND MNH PWE Blvd 315  
Fort Myer VA 22211

Washington Blvd and Arlington Blvd  
Arlington VA 22211

CONTACT PERSON Richard LaFreniere

TELEPHONE 703-696-8055

VAR051296	003
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	TO YEAR MONTH DAY
X	2014	July	1	2014 December 31
	2015	January	1	2015 June 30
	2015	July	1	2015 December 31
	2016	January	1	2016 June 30
	2016	July	1	2016 December 31
	2017	January	1	2017 June 30
	2017	July	1	2017 December 31
	2018	January	1	2018 June 30
	2018	July	1	2018 December 31
	2019	January	1	2019 June 30

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
929 ChesBay TMDL TSS	*****	*****	44		GRAB
	*****	*****	NL		GRAB
930 ChesBay TMDL Nitrogen, Total (as N)	*****	*****	0.71		GRAB
	*****	*****	NL		GRAB
931 ChesBay TMDL Phosphorus, Total (as P)	*****	*****	0.18		GRAB
	*****	*****	NL		GRAB

STORM EVENT INFORMATION			
DATE	YR	MO	DAY
	15	05	21
DURATION	HRS	MIN	
	6	0	
RAINFALL TOTAL (IN.)	0.33		
PRECEDING EVENT	DAYS	HRS	
			57

Comments: Chesapeake Bay TMDL monitoring is only required July 1, 2014 through June 30, 2016.

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COMMON WALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
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TMDL WASTE LOAD ALLOCATION MONITORING

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CONTACT PERSON Richard LaFreniere  
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VAR051296	005
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD			
	YEAR	MONTH	DAY	NO.
	2014	July	1	1
X	2015	January	1	1
	2015	July	1	1
	2016	January	1	1
	2016	July	1	1
	2017	January	1	1
	2017	July	1	1
	2018	January	1	1
	2018	July	1	1
	2019	January	1	1

PARAMETER	CONCENTRATION			NO. EX.	SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM		
929 ChesBay TMDL TSS	*****	*****	19		GRAB
	*****	*****	NL		GRAB
930 ChesBay TMDL Nitrogen, Total (as N)	*****	*****	0.27		GRAB
	*****	*****	NL		GRAB
931 ChesBay TMDL Phosphorus, Total (as P)	*****	*****	ND		GRAB
	*****	*****	NL		GRAB

STORM EVENT INFORMATION		
DATE	YR	MO DAY
	15	05 21
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	6	0
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